

Chapter 101

Report on Global Environment

Competitiveness of Netherlands

Netherlands locates mainly in North-West Europe and with some islands in the Caribbean. Mainland Netherlands borders the North Sea to the north and west, Belgium to the south, and Germany to the east, and shares maritime borders with Belgium. The predominant wind direction in the Netherlands is southwest, which causes a moderate maritime climate. It covers 33.7 thousand of square kilometers and has a population of 16.69 million. Its GDP reaches \$836.07 billion in 2011. Through the index system and evaluation model, the environment competitiveness index of Netherlands ranks at 37 in 133 countries.

Score:
52.78
Rank:
37

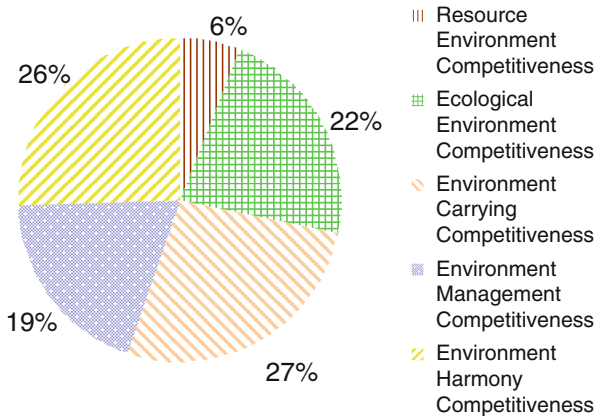


Fig. 101.1 Contribution of sub-index of GEC

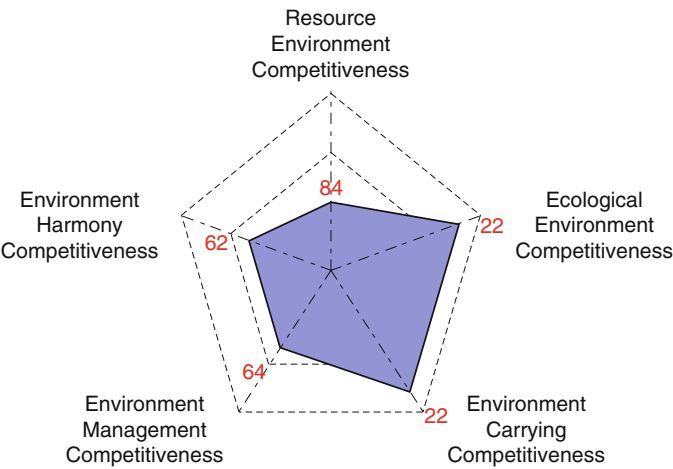


Fig. 101.2 Rank of sub-index of GEC

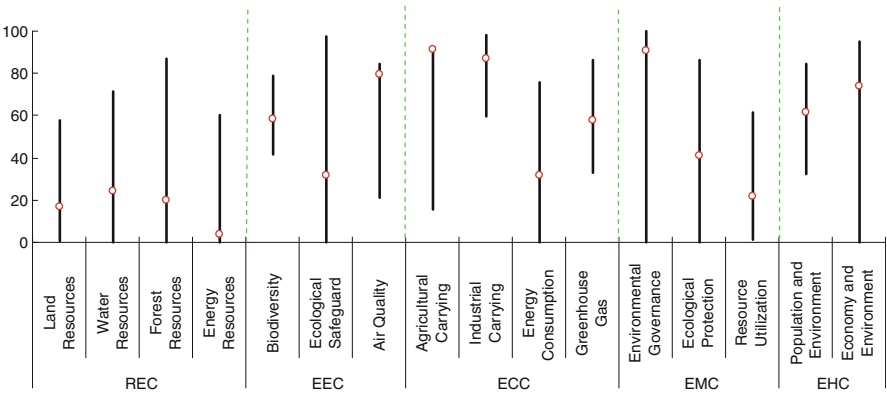


Fig. 101.3 Score and rank of the pillars of GEC

Table 101.1 Score and rank of all indicators of GEC

Indicators	Score	Rank	Indicators	Score	Rank
1 Resource Environment Competitiveness	15.86	84	Groundwater	19.18	41
1.1 Land Resources	16.73	40	Total internal renewable water resources	16.45	59
Land area per capita	0.34	129	1.3 Forest Resources	20.18	101
Percentage of arable land to total land area	52.39	20	Growing stock in forest and other wooded land	50.21	95
Arable land per capita	2.92	112	Proportion of land area covered by forest	12.67	95
1.2 Water Resources	24.31	43	Forest area per capita	0.15	121
Surface water	29.12	3	1.4 Energy Resources	3.96	82
Annual precipitation	32.49	61			

(continued)

Table 101.1 (continued)

Indicators	Score	Rank	Indicators	Score	Rank
Fossil energy	0.00	60	Annual freshwater withdrawals for industry per value added of industry	93.83	98
Energy production	4.24	24	3.3 Energy Consumption	31.98	85
Proportion of combustible renewable and waste to total energy consumption	4.45	88	Energy consumption per unit of land area	94.72	124
Net energy imports of the energy consumption	10.58	54	Ratio of clean energy consumption	3.37	78
2 Ecological Environment Competitiveness	58.80	22	Elasticity of energy consumption	16.73	11
2.1 Biodiversity	58.42	54	Elasticity of electric power consumption	13.11	26
Threatened fish species	93.87	36	3.4 Greenhouse Gas	57.84	100
Threatened mammal species	97.83	17	Growth rate of CO ₂ emissions	46.47	84
Threatened plant species	100.00	1	Growth rate of Methane emissions	62.51	35
GEF benefits index for biodiversity	0.20	109	CO ₂ emissions per unit of land area	93.83	129
2.2 Ecological Safeguard	31.74	41	CO ₂ emissions per unit of energy consumption	39.93	71
Terrestrial protected areas	33.42	58	4 Environment Management Competitiveness	50.05	64
Marine protected areas	29.22	11	4.1 Environmental Governance	90.48	61
2.3 Air Quality	79.38	26	Agricultural chemicals regulation	76.19	62
Inhalable particles (PM10)	78.10	69	Percentage of the rural population with access to an improved water source	100.00	1
Particulate matter (PM2.5)	88.77	41	Percentage of the urban population with access to an improved water source	100.00	1
Index of indoor air pollution	100.00	1	4.2 Ecological Protection	41.00	40
Nitrogen oxides emission	65.89	94	Area of plantation and afforestation	0.47	58
Sulfur dioxide emission	40.80	49	Biome protect	71.90	53
3 Environment Carrying Competitiveness	71.47	22	Overfishing of fishing resources	64.15	28
3.1 Agricultural Carrying	91.16	1	4.3 Resource Utilization	21.68	124
Cereal yield per unit of arable land	92.59	3	Utilization rate of water resources	0.47	59
Fertilizer consumption per unit of arable land	80.51	111	Percentage of total internal renewable water resources to total water resources	11.52	121
Annual freshwater withdrawals for agriculture per unit of arable land	99.90	20			
3.2 Industrial Carrying	87.18	100			
Net exports of goods as a percentage of GDP	59.81	117			
Electric power consumption per unit of value added of industry	95.09	33			
SO ₂ emissions per unit of value added of industry	99.99	11			

(continued)

Table 101.1 (continued)

Indicators	Score	Rank	Indicators	Score	Rank
Percentage of agricultural land to total land area	67.18	38	SO ₂ emissions per capita	98.31	32
Percentage of fossil fuel energy consumption to total energy consumption	7.56	102	CO ₂ emissions per capita	69.57	118
5 Environment Harmony Competitiveness	67.73	62	Energy consumption per capita	61.45	111
5.1 Population and Environment	61.66	114	5.2 Economy and Environment	73.79	6
Percentage of population with access to Improved sanitation facilities	100.00	1	Land resource utilization efficiency	7.24	2
Motor vehicles per 1,000 people	35.68	110	Sulfur dioxide emissions per unit of GDP	99.82	7
Renewable internal freshwater resources per capita	0.80	110	Carbon dioxide emissions per unit of GDP	92.97	34
			Energy consumption per unit of GDP	95.16	18

Table 101.2 Rank distribution of the individual indicators of GEC

Sub-index	Number of the individual indicators	Rank 1–10	Rank 11–30	Rank 31–60	Rank 61–100	Rank 101–133
Resource Environment Competitiveness	14	1	2	4	5	2
Ecological Environment Competitiveness	11	2	2	5	2	0
Environment Carrying Competitiveness	15	2	2	2	5	4
Environment Management Competitiveness	10	1	0	5	2	2
Environment Harmony Competitiveness	10	4	0	2	0	4
Total	60	10	6	18	14	12

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